

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Hidetoshi Inoko et al.

Art Unit : 1645

Serial No. : 09/713,616

Examiner : Unknown

Filed : November 15, 2000

Title : NOVEL POLYMORPHIC MICROSATELLITE MARKERS IN THE HUMAN MHC CLASS II REGION

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10-5-01

Commissioner for Patents
Washington, D.C. 20231

PRELIMINARY AMENDMENT

Prior to examination, applicants submit herewith a Sequence Listing in computer readable form as required by 37 CFR §1.824. In addition, applicants submit a Sequence Listing as required under 37 CFR §1.823(a) and a statement under 37 CFR §§1.821(f) and (g).

Applicants respectfully request entry of the substitute paper copy and computer-readable copy of the Sequence Listing filed herewith for the instant application. Please replace the original Sequence Listing with the substitute Sequence Listing filed herewith. Furthermore, applicants request entry of the following amendments.

In the specification:

Replace the paragraph beginning at page 14, line 15, with the following rewritten paragraph:

--Microsatellite repeats identified in the HLA class II region (1.1 Mb from the HSET to TSBP genes, Figure 1) (The MHC sequencing consortium (1999) Nature 401, 921-923) amounted to 494 in total, consisting of 158 di-, 65 tri-, 163 tetra-, and 108 penta-nucleotide repeats (Table 1). Four tri-nucleotide repeats are localized inside the coding sequences of functional genes. The exon 4 of the Daxx gene included a microsatellite repeat M2_3_3,

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CERTIFICATE OF MAILING BY FIRST CLASS MAIL

I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner for Patents, Washington, D.C. 20231.

JUNE 5, 2001
Date of Deposit

Kathleen Philpot
Signature

KATHLEEN PHILPOT
Typed or Printed Name of Person Signing Certificate

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consisting of (GAG)₅ (SEQ ID NO:43), which encodes polyglutamic acids. Another microsatellite M2_3_4, (GAG)₂GAA(GAG)₃ (SEQ ID NO:44), localized in the exon 1 sequence of the BING1 gene, also encodes polyglutamic acids. The RXRB gene contained M2_3_8, (GCG)₆ (SEQ ID NO:45), which gives rise to polyalanines, in exon 1. The first exon of the COL11A2 gene possessed M2_3_10, (CTC)₄ (SEQ ID NO:46), which encodes polyleucines. Among them, the three microsatellite repeats, M2_3_3, M2_3_4, and M2_3_10, did not exhibit any repeat polymorphism.--

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REMARKS

Applicants hereby submit that the enclosures fulfill the requirements under 37 C.F.R. §1.821-1.825. The amendments in the specification merely insert the paper copy of the Sequence Listing and sequence identifiers in the specification. No new matter is added.

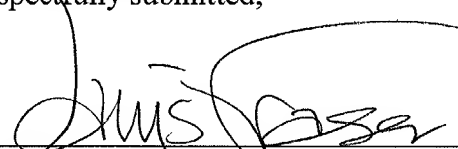
Attached hereto is a marked-up version of the changes made to the specification and claims by the current amendment. The attached page is captioned "**Version with markings to show changes made**".

Please apply any charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date: _____

June 5, 2001



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